



Service Bulletin

File in Section: -

Bulletin No.: PI0562E

Date: November, 2012

PRELIMINARY INFORMATION

Subject: Loud Rattle Noise on Startup, Rattle Noise Stops in 3 Seconds or Less

Models: 2011-2012 Buick LaCrosse, Regal
2011-2012 Chevrolet Equinox
2012 Chevrolet Orlando (Canada Only)
2011-2012 GMC Terrain
Equipped with Engine RPOs LAF (VIN C), LEA (VIN K), LUK (VIN R)

This PI is being revised to add the 2012 Orlando, update the Recommendation/Instructions, Parts Information and Warranty Information. Please discard PI0562D.

Condition/Concern

Some customers may comment on a loud rattle noise when the vehicle is first started up. The noise will last for 3 seconds or less then stop. The noise may be intermittent in most cases, but the frequency of occurrence increases with time. The noise is more likely to occur after an extended or overnight soak and is easily heard while in the vehicle with the window up. In some instances, DTC P0011 may also set.

The prior engine shut down did not allow oil pressure to the camshaft position actuator long enough to lock it in the start up position for the next start up. The noise that is heard is the internal section of the camshaft position actuator moving from one end of its range of motion to the other end. The noise stops when the camshaft position actuator is refilled with oil in 3 seconds or less.

Recommendation/Instructions

- On 2011 model year vehicles, verify if Recall #11195B applies and has been completed. Confirm in GWM/IVH what part numbers for the Camshaft Position Actuator Solenoid Valves were installed. If GWM/IVH confirms that part numbers 12628347 and 12628348 were installed, replace with part numbers 12655420 and 12655421. Refer to Camshaft Position Actuator Solenoid Valve Replacement in SI.

Important: When replacing the camshaft position actuators, strictly follow SI procedures, otherwise damage to the camshaft position actuators may result.

- Replace (both intake and exhaust) camshaft position actuators, and evaluate the vehicle for noise. Refer to Camshaft Position Intake Actuator Replacement and Camshaft Position Exhaust Actuator Replacement in SI. The camshaft actuators may have been damaged when the engine was started and made noise.
- Start the engine and get the oil fully heated up, then shut it off. Let the vehicle sit for an extended period of time over 3 hours, and then evaluate if the noise has been eliminated on start up.

For 2011 vehicles, reflash the ECM with the latest calibration titled:

New calibration to enhance the operation of the engine oil life monitor to more accurately identify the required oil change interval. Also diagnostic enhancements for DTC P0011 and fix to address startup rattle.

- Start the engine and get the oil fully heated up, then shut it off. Let the vehicle sit for an extended period of time over 3 hours, and then evaluate if the noise has been eliminated on start up.

Note: At this time, no upcoming calibrations are planned for 2012 models.

Parts Information (Germany Built Regals Prior to VIN B1014160)

Part Number	Description	Qty
12621505	Actuator, Camshaft Position (Exhaust)	1
12578515	Actuator, Camshaft Position (Intake)	1
12655420	Valve, Camshaft Position Actuator Intake Solenoid	1
12655421	Valve, Camshaft Position Actuator Exhaust Solenoid	1
11588844	Bolt, Camshaft Actuator	2

Parts Information (All Others)

Part Number	Description	Qty
12621505	Actuator, Camshaft Position (Exhaust)	2
12655420	Valve, Camshaft Position Actuator Intake Solenoid	1
12655421	Valve, Camshaft Position Actuator Exhaust Solenoid	1
11588844	Bolt, Camshaft Actuator	2

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J7567* (LaCrosse, Regal)	Replace Intake, Exhaust Camshaft Position Actuators and Camshaft Position Actuator Solenoid Valves	1.1 hrs
J7567* (Equinox, Terrain)		1.3 hrs
J7567* (Orlando)		1.5 hrs
Add	Add to Reprogram ECM (2011 Model Year)	0.3 hr
*This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide.		